Notch3 (8G5) Rat mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90, 270	Source/Isotype: Rat IgG2a	UniProt ID: #Q9UM47	Entrez-Gene Id: 4854
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		• •	mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than azide. Store at –20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		Notch3 (8G5) Rat mAb detects endogenous levels of total notch3 protein. It recognizes the full-length (270 kDa) and the extracellular truncated fragment containing a short extracellular region, the transmembrane domain and the intracellular region (90 kDa).				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a fusion protein corresponding to intracellular residues of notch3.				
Background		development and the assembled as heteroc domain, a single-pass domain, NICD) (2). Bir heterodimer dissociat NICD, which translocated NICD, which translocated the notch3 is a member of the notch3 extracellul	determination of collimeric proteins, with transmembrane do inding of Notch receion, exposing the rutes to the nucleus of notch family that mooth muscle cells ar region are assoc	transmembrane reception fate (1). Mature Notch each dimer composed omain, and a smaller cytotors to ligands of the Deceptors to proteolytic cand activates transcription is processed in a similar (SMC). Mutations altering tated with cerebral automated.	n receptors are prod d of a large extracel coplasmic subunit (I elta-Serrate-Lag2 (I leavages; these res on of downstream to way to notch1 (5). g the number of cy somal dominant ar	tessed and lular ligand-binding Notch intracellular DSL) family triggers ult in release of the arget genes (3,4). It is expressed steine residues in teriopathy with
				athy (CADASIL), a hered ies indicate that notch3	, , ,	J
Background References		1. Artavanis-Tsakonas, S. et al. (1999) <i>Science</i> 284, 770-6. 2. Chan, Y.M. and Jan, Y.N. (1998) <i>Cell</i> 94, 423-6. 3. Schroeter, E.H. et al. (1998) <i>Nature</i> 393, 382-6. 4. Rand, M.D. et al. (2000) <i>Mol Cell Biol</i> 20, 1825-35. 5. Baron, M. (2003) <i>Semin Cell Dev Biol</i> 14, 113-9. 6. Kalimo, H. et al. (2002) <i>Brain Pathol</i> 12, 371-84. 7. Karlström, H. et al. (2002) <i>Proc Natl Acad Sci USA</i> 99, 17119-24. 8. Monet, M. et al. (2007) <i>Hum Mol Genet</i> 16, 982-92. 9. Park, J.T. et al. (2006) <i>Cancer Res</i> 66, 6312-8. 10. Gramantieri, L. et al. (2007) <i>Liver Int</i> 27, 997-1007. 11. Yamaguchi, N. et al. (2008) <i>Cancer Res</i> 68, 1881-8.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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